

Micro Stamps (10

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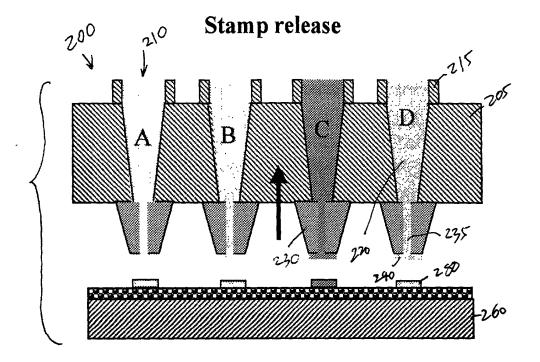
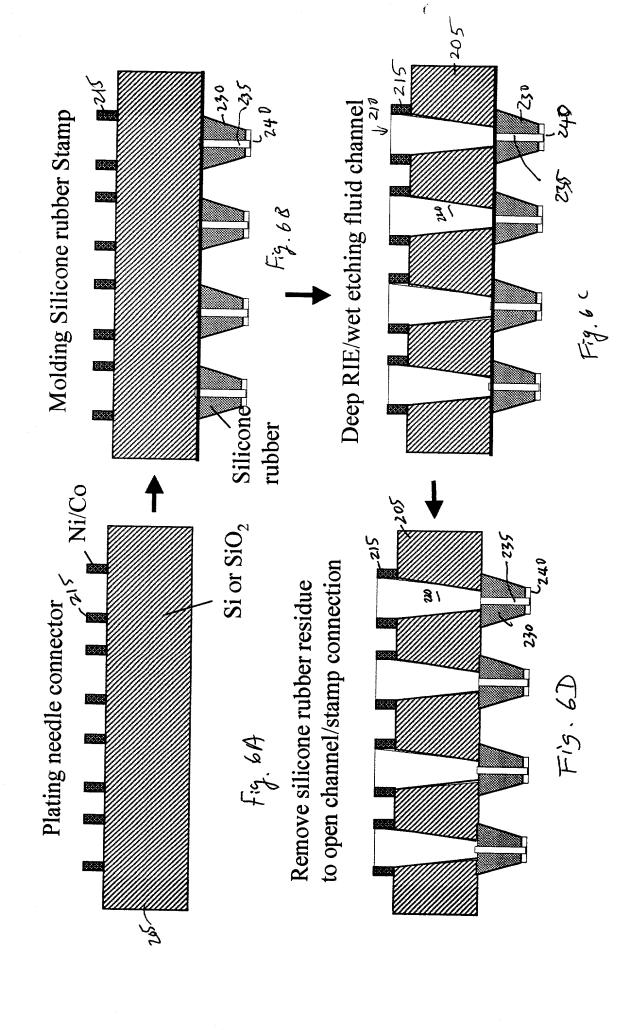
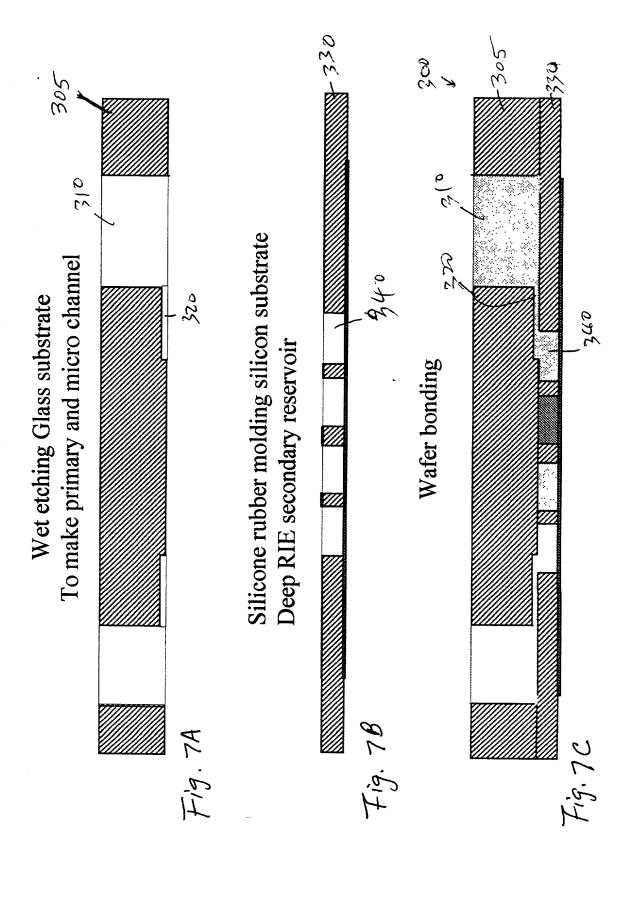
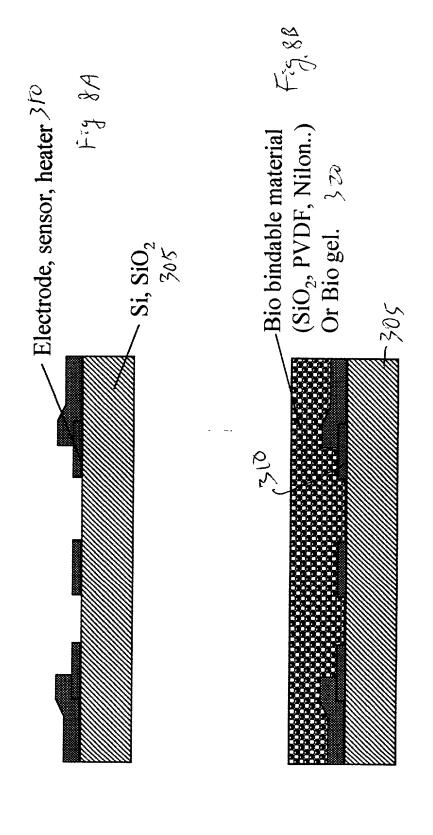


Fig. 5





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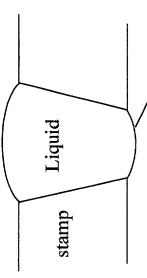
## A. Liquid filling into stamp

(1) hydrophilic surface inside channel (easy to fill in, but the bottom meniscus of liquid is concave upward which is not desired)

stamp Liquid

Not easy to contact with reaction substrate

(2) hydrophobic surface inside channel (liquid hard to fill in, however, the bottom meniscus of liquid is what we need; concave downward)



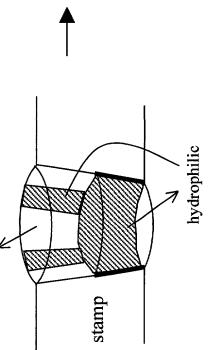
Easy to contact with reaction substrate

Fig QA

(3) hybrid surface inside channel

hydrophobic

partial hydrophilic and hydrophobic surface as d. f f f the left side; or the surface can be switched into hydrophilic or hydrophobic as desired



hydrophilic surface hydrophilic or hydrophobic surface

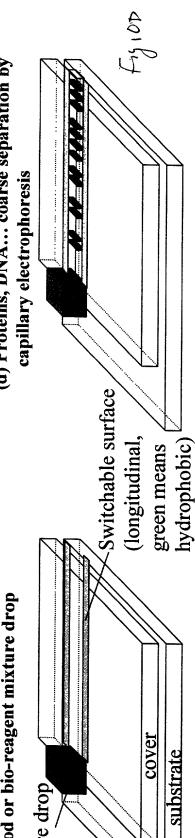
stamp

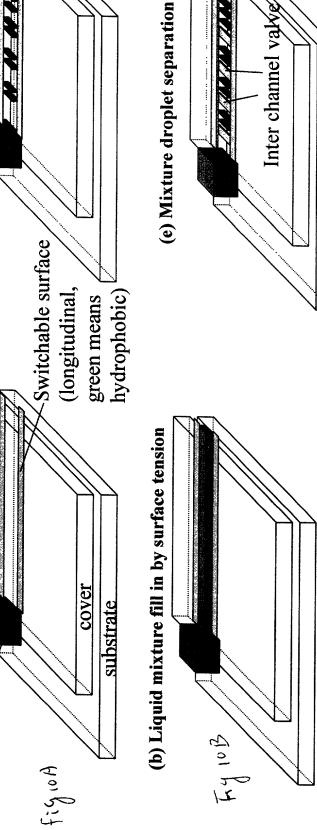
Liquid

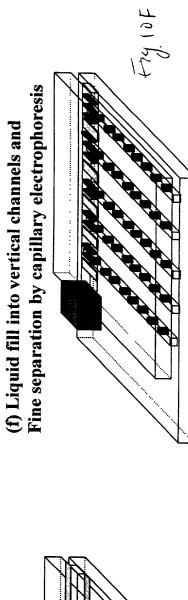
F3 90

Fig. 9c

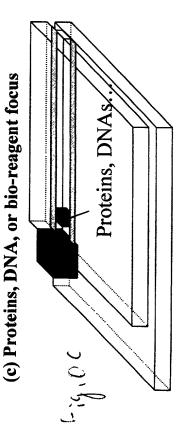
(d) Proteins, DNA... coarse separation by capillary electrophoresis New idea: 2 D micro Separation (a) Blood or bio-reagent mixture drop Mixture drop,

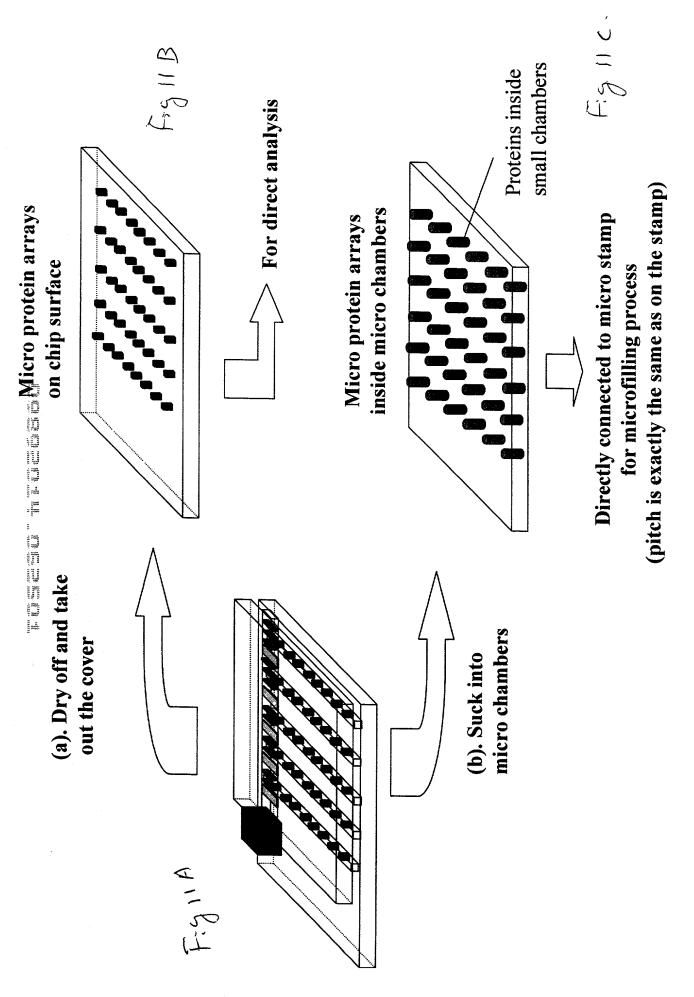






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